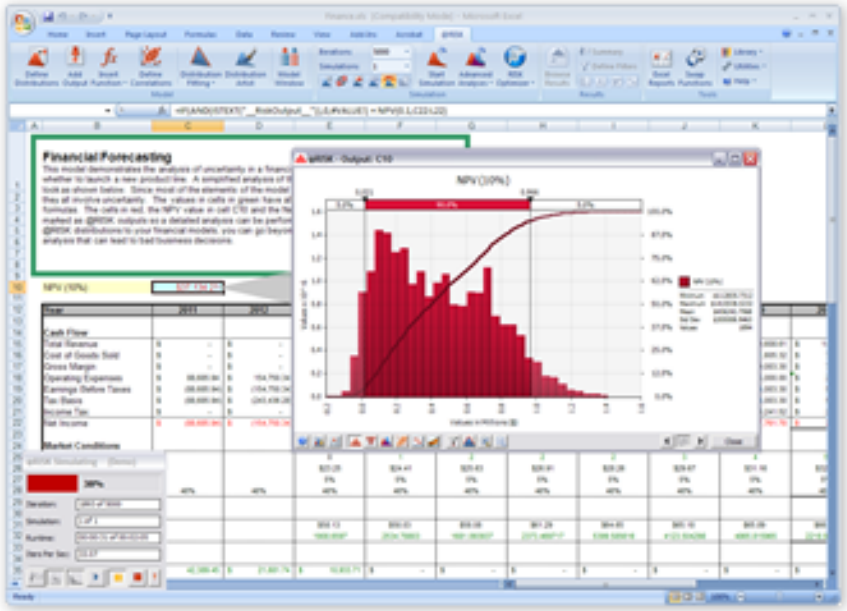
PMT 257_Day 4_Risk Management Tools
@Risk

Description

@Risk performs risk analysis using Monte Carlo simulation, which illustrates many possible outcomes in your Microsoft® Excel spreadsheet. @Risk also indicates how likely they are to occur.



@Risk
http://www.palisade.com/risk/default.asp

Features

- Uses Monte Carlo simulation
- 100% Excel calculations for simulation
- Seamless integration into Microsoft Excel
- Intuitive toolbars and right-click menus
- Remove (and later restore) @RISK functions for sharing models with non-@RISK users
- Define, reuse, and share custom distributions and simulation results
- Percentile distribution parameters
- Correlation of inputs and correlation time series
- Demo Mode and live updating
- Customize simulations to specific needs
- Fully customizable presentation-quality graphs
- Reporting in Microsoft Office - All graphs and charts can be exported to Excel, Word, and PowerPoint in native chart format for easy distribution to others
- Histograms
- Tornado charts and scatter plots
- Sensitivity and Scenario Analysis
- Six Sigma functions

Description

Risk Radar® Enterprise (RRE) is a fully web-based, easy-to-use application designed to facilitate proactive risk management and communication within a multi-project, multi-tiered Enterprise Risk Management system. It is designed to help project managers and their teams actively identify, analyze, track, report, and mitigate project risk and increase risk visibility.

Features

- Easy-to-use intuitive interface
- Multi-level risk roll-up capability with oversight levels
- Customizable features:
  - 3x3, 4x4, or 5x5 Risk Matrix (Probability/Likelihood vs. Impact/Consequence)
  - User defined Risk & Project Attributes
  - User defined Project Milestones
  - Up to 14 customizable Risk Triggers with automatic email notification
- 23 standard risk reports, plus:
  - Ad Hoc reports (user defined data fields)
- Export raw risk data to create custom reports
- 18 selectable report filters
- Risk Mitigation “waterfall” chart
- Risk coordinators can tailor formats, settings, and menus to satisfy their unique project requirements

Risk Radar® Enterprise
http://www.proconceptsllc.com/uploads/RREFlyer_PROCONCEPTSLLC_05-2012.pdf

Description

Active Risk Manager (ARM) is a comprehensive enterprise risk management (ERM) software package, in use in over 170 of the globe's most respected and demanding organizations, projects and supply chains.

Features

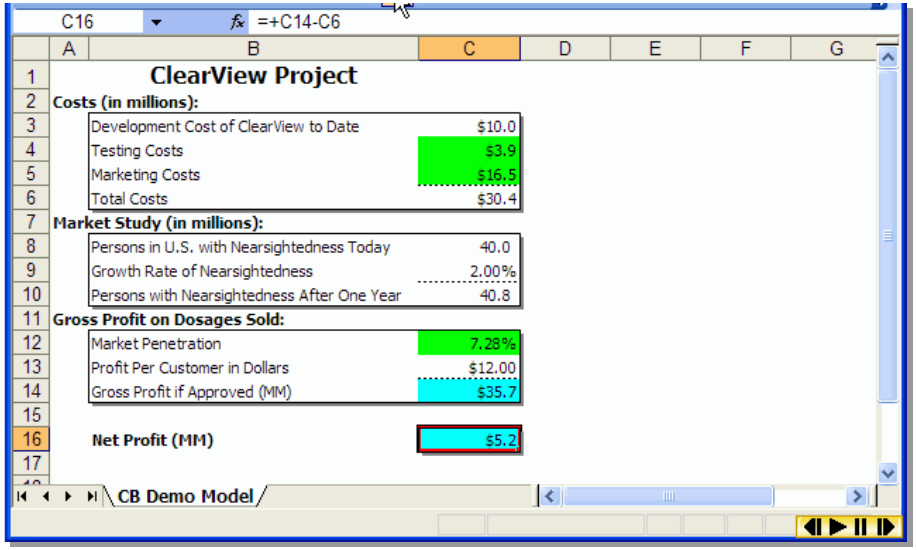
- Extensive range of ERM capabilities
- Management of project and program risk
- Strategic enterprise oversight
- Delivers an integrated approach to identifying, documenting, mitigating, monitoring and analyzing risks and opportunities in all business functions
- Easily configured to support a range of business domains and processes
- A single web-based system for managing risks and opportunities can be used
- Integration of risk management across operations and projects
- Replaces silo-based, spreadsheet approach to risk management with a single integrated ERM system
- Provides top-down, bottom-up and cross organizational views of risks and opportunities

Active Risk
http://www.activerisk.com/solutions/active-risk-manager-arm/

PMT 257_Day 4_Risk Management Tools
Crystal Ball

Description

Oracle Crystal Ball is a spreadsheet-based application suite for predictive modeling, forecasting, simulation, and optimization. It gives insight into the critical factors affecting risk.


C16
=+C14-C6
ClearView Project
Costs (in millions):
Development Cost of ClearView to Date $10.0
Testing Costs $3.9
Marketing Costs $16.5
Total Costs $30.4
Market Study (in millions):
Persons in U.S. with Nearsightedness Today 40.0
Growth Rate of Nearsightedness 2.00%
Persons with Nearsightedness After One Year 40.8
Gross Profit on Dosages Sold:
Market Penetration 7.28%
Profit Per Customer in Dollars $12.00
Gross Profit if Approved (MM) $35.7
Net Profit (MM) $5.2
CB Demo Model

Features

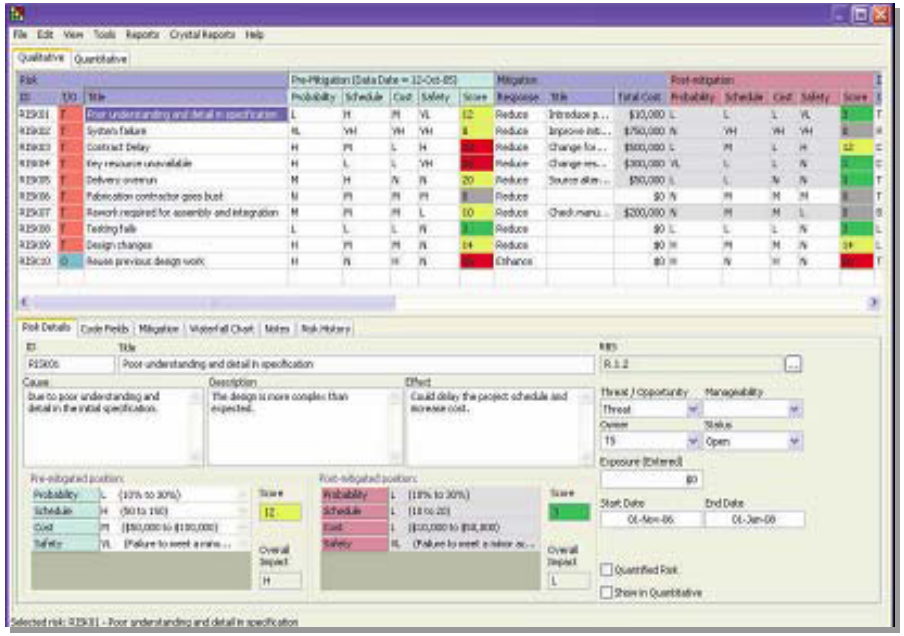
- Uses Monte Carlo Simulation
- Identify and mitigate the key inputs that drive risk
- Automatically calculates and records the results of thousands of different "what if" cases
- Analysis presents range of possible outcomes, their probability of occurring, the inputs that most impact your model, and where you should focus your efforts
- Allows you to work as a team, sharing models and data
- Uses spreadsheet technology that you already own
- Allows you to share your findings through graphs, charts, and reports that present and communicate the results of your analyses

Crystal Ball
http://www.oracle.com/us/products/middleware/bus-int/crystalball/index-066566.html

Primavera Risk Analysis

Description

Oracle's Primavera Risk Analysis is a full lifecycle risk analytics solution integrating cost and schedule risk management.



Primavera Risk Analysis

Features

- Helps identify common scheduling pitfalls that may result in misleading schedule or risk analysis results
- Integrates pre-developed risk registers and defines new risk registers
- Addresses full lifecycle risk management through advanced Monte Carlo-based cost and schedule analytics
- Reports confidence levels with regards to finish dates, costs, float, internal rate of return and net present value
- Integrates project schedules and cost estimates to model risks and uncertainty
- Determines contingency and risk response plans
- Provides a comprehensive means of reporting project confidence levels
- Risk-loads projects through risk registers and risk templates before using Monte Carlo simulation to analyze them
- Provides variety of reports, including risk histograms, tornados, and scatter plots

PMT 257_Day 4_Risk Management Software Tools
Tools Comparison

	@Risk	Risk Radar® Enterprise	Active Risk Manager	Crystal Ball	Primavera Risk Analysis
Microsoft Project Integration?	No	No	Yes	Yes	Yes
Microsoft Excel Integration?	Yes	No	Yes	Yes	---
Use of graphs and charts?	Yes	Yes	Yes	Yes	Yes
Monte Carlo Simulation?	Yes	No	---	Yes	Yes
Customizable Features?	Yes	Yes	Yes	Yes	---
Web-based?	No	Yes	Yes	Yes	Yes
What stands out?	•Simulations are calculated 100% within Excel. •Compatibility: Compatible with PC Excel 2000 and higher and PC Windows 2000 and higher.	•Supports guidance from the PMI PMBOK®, IEEE, SEI CMMI and DoD Risk Management Guide for DoD Acquisition •NMCI Certified; ATO Army EIS network •Compatible with MySQL 5 or newer, Oracle 8ior newer , SQL Server 2000 or newer. Used by Govt contractors and Govt agencies.	•Compatible with Microsoft SQL Server and Oracle databases, Microsoft Reporting Services and SharePoint. •Interfaces with Microsoft Excel, Microsoft Project, Primavera, Telelogic DOORS and Cradle.	•Compatible with Microsoft Excel 2002 (XP), 2003 with Service Pack 3, or Microsoft Excel 2007 with Service Pack 2, Microsoft Internet Explorer 7.0 and 8.0.	---
Possible shortcomings	---	•Oracle database requires a separate 3rd party driver.	---	---	---

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